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Search result: 1 of 1

(WO/2005/005645) NEGATIVE STRAND RNA VIRUS REPLICON

Biblio. Data	Description	Claims	National Phase	Notices	Documents
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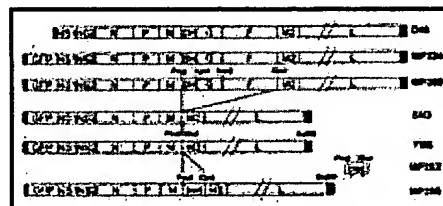
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Priority Data: 60/478,521 13.06.2003 US

Title: NEGATIVE STRAND RNA VIRUS REPLICON

Abstract: The present invention relates to non-cytopathic negative-strand RNA virus replicons, and methods of making and using the replicons and replicon systems.



Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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African Intellectual Property Organization (OAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/86

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	OOMENS A G P ET AL: "Infectivity of a human respiratory syncytial virus lacking the SH, G, and F proteins is efficiently mediated by the vesicular stomatitis virus G protein." JOURNAL OF VIROLOGY, vol. 77, no. 6, March 2003 (2003-03), pages 3785-3798, XP002301668 ISSN: 0022-538X	1, 4-8, 13, 16-20, 24-29, 31
Y	abstract; figure 1; results; discussion; ----- -/--	1-32

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

20 October 2004

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08/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TECHAARPORNKUL S ET AL: "Functional analysis of recombinant respiratory syncytial virus deletion mutants lacking the small hydrophobic and/or attachment glycoprotein gene" JOURNAL OF VIROLOGY, vol. 75, no. 15, August 2001 (2001-08), pages 6825-6834, XP002301669 ISSN: 0022-538X	1,7,8, 13, 16-20, 24-27
Y	abstract; figure 1; results, discussion; -----	1-32
X	WO 03/025570 A (DNAVEC RES INC ; HASEGAWA MAMORU (JP); IIDA AKIHIRO (JP); INOUE MAKOTO) 27 March 2003 (2003-03-27)	1,4-6, 13, 16-20, 26,27,31
Y	claims; figures 2,33; examples 1,20 & EP 1 437 593 A (DNAVEC RES INC) 14 July 2004 (2004-07-14) -----	1-32
X	WO 03/029274 A (PICKLES RAYMOND J ; RUSH PRESBYTERIAN ST LUKE (US); UNIV NORTH CAROLIN) 10 April 2003 (2003-04-10)	1,2,4-9, 13, 16-21, 24-27,31
Y	page 17, line 28 - page 25, line 23; claims -----	1-32
Y	WO 01/19853 A (HOLLANDER ANTHONY PETER ; UNIV SHEFFIELD (GB); BARKER MICHAEL DAVID (G) 22 March 2001 (2001-03-22) page 11, line 17 - line 27; claims -----	1-32

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/018783

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03025570	A	27-03-2003	CA 2460778 A1	27-03-2003
			EP 1437593 A1	14-07-2004
			WO 03025570 A1	27-03-2003
			US 2003170266 A1	11-09-2003
			US 2003166252 A1	04-09-2003
			US 2002169306 A1	14-11-2002
			US 2003022376 A1	30-01-2003
EP 1437593	A	14-07-2004	CA 2460778 A1	27-03-2003
			EP 1437593 A1	14-07-2004
			US 2003170266 A1	11-09-2003
			US 2003166252 A1	04-09-2003
			WO 03025570 A1	27-03-2003
			US 2002169306 A1	14-11-2002
			US 2003022376 A1	30-01-2003
WO 03029274	A	10-04-2003	EP 1438399 A2	21-07-2004
			WO 03029274 A2	10-04-2003
WO 0119853	A	22-03-2001	AU 7300300 A	17-04-2001
			WO 0119853 A2	22-03-2001